

## SAM (REX/Ops) Operations Meeting 2008.07.01

Adam (typist), Eric, SteveW, Krzysztof, JerryG, Angela (virtually), Anil, Randolph, Robert

Meeting time: 25 min

Posting these minutes closes DZSAM-117

For reports submitted to the meeting...

The report text is in this font

Comments made during the meeting are in this font inline with the report

### Releases:

No new releases.

Releases in the works (fixed means that code is in CVS, but not released into KITS).

The screenshot shows a web-based interface for managing software releases. It lists four packages, each with a progress bar and a list of associated issues.

- sam\_db\_srv\_pkg\_v8\_4\_6** (Release Notes): Progress: 1 of 1 issues have been resolved. Issue: SAMDEV-12 FIXED - Change D0 autodeestination logic for -test versions.
- sam\_db\_srv\_pkg\_v8\_5\_0** (Release Notes): Progress: 0 of 2 issues have been resolved. Issues: SAMDEV-6 UNRESOLVED - samadmin remove cached files command does not copy the cached\_files record to the history table; SAMDEV-9 UNRESOLVED - Incorrect exception specification for DataFileImpl.removeReplica().
- sam\_cpp\_api\_v8\_4\_2** (Release Notes): Progress: 1 of 1 issues have been resolved. Issue: SAMDEV-4 FIXED - Incorrect user check in c++ client.
- sam\_v8\_4\_2** (Release Notes): Progress: 2 of 2 issues have been resolved. Issues: SAMDEV-11 FIXED - SAM client not properly threadsafe; SAMDEV-14 FIXED - sam generate recovery project provides no way to only ask for the unconsumed files.

### Issues not assigned to a release...

T	Key	Status	Summary
	<a href="#">SAMDEV-6</a>	Open	samadmin remove cached files command does not copy the cached_files record to the history table

### DØ:

--- There was no shifter at all this past weekend.

--- Mike in Farm has reported problems in getting files from Enstore.

Whole 9940B library would either read or write - not both. Other tape drives were left idle. Very strange behavior. Seems to be working now. Not understood at all.

--- June 25 : D0ora1 was back up after OS patching ~12 pm .

### Unresolved issues:

Plone: #3933 : problem in modify request param dictionary. Can an expert help ? ( I'm asking the user to show us his script. )

Plone: #3932: declaring files bad : I've alerted the shifter to do it and this should easily be resolved by a shifter.  
Done



Plone: #3929/30 DZSAM-116 : "Jobs not starting, no deliveries from Enstore". Working on it...  
Same as above





Plone: #3927: User "lebrun" complained about "no delivered file on CLUED0" but it seems that the projects all gone. Checking with the user to see whether we can close this ticket.  
Same as above

Plone: #3925: "MC jobs held". This issue is different from the above Enstore problem, right ? Can we answer the user ?  
Will look at this

Robert: Trying to match storage site to worker node is not working because some worker nodes do not have "external" names. E.g. some worker

nodes have names like "node23.local" which is impossible to match. Need to do development to match on something else, like gateway name.

Issues: <b>DZSAM resolved issues from past week</b> (Displaying 1 of 1)		
	<a href="#">DZSAM-110</a> Activate iu.edu SRM for OSG jobs	

Issues: <b>DZSAM new issues from past week</b> (Displaying 2 of 2)		
	<a href="#">DZSAM-116</a> Jobs not starting, no deliveries from Enstore	
	<a href="#">DZSAM-110</a> Activate iu.edu SRM for OSG jobs	

Issues: <b>DZSAM unresolved problems</b> (Displaying 6 of 6)		
	<a href="#">DZSAM-116</a> Jobs not starting, no deliveries from Enstore	
	<a href="#">DZSAM-104</a> OSG-OUHEP Context server big log and Corba comm failures	
	<a href="#">DZSAM-100</a> MC Jobs overwhelming SBGRID	
	<a href="#">DZSAM-62</a> 40 MC jobs held over the weekend	
	<a href="#">DZSAM-54</a> Jobs don't work on Lancaster Forwarding Node	
	<a href="#">DZSAM-53</a> samgrid reporting incorrect status of jobs	

## CDF:

here's the CDF report:

- Users complain about slow file access. There were up to 1.5k files in the restore queue. The difference between `restoreHandler` and `queueInfo` is at ~60 at the moment.

Prestaging would help here. Robert has a script (or do `dccp -P` : that just puts the requests in the queue, does not copy immediately).

- `fcdfdata100` is down since Saturday midnight.

- There were DB issues because of parallel lumi queries and an old `pickEvent`.

- Randolph improved the query for remote site datasets significantly. The information about files on tape or permanent disk still has to be added.

- There are still file size mismatches (reminder for Randolph)

Status:

- two failing uploads





















- `fcdfdata100` node down, `fcdfdata147-2` to 4 offline, `fcdfdata320` inactive































- high number of restores



































- 9940B22 dead, IAF406 marked NOACCESS

SteveW: Cached file problem has been fixed, but will need to run his script again until CDF uses the latest DB server.

SAM at CNAF - have not been able to run there for SAM for quite a long time because of a crash in `sam_cpp_api`. But CDF code mangles the traceback. Finally got a traceback that was useful - problem seems to be in looking a user name in their LDAP system. Robert rewrote the LDAP lookup code to make it threadsafe and sane. Has standalone versions of old and new code. Asking them to try it once their electrical problems are fixed.

Issues: <b>CDFDH resolved issues from past week</b> (Displaying 10 of 10)		
	<a href="#">CDFDH-154</a> CDF prd DB Largest Last_ET rising	
	<a href="#">CDFDH-153</a> CDF prd DB Largest Last_ET rising	
	<a href="#">CDFDH-149</a> SAM Optimizer is down for integration environment	
	<a href="#">CDFDH-145</a> stkensrv1 problem ? *urgent*	
	<a href="#">CDFDH-140</a> Read Access	
	<a href="#">CDFDH-137</a> strange fcp queue behaviour	
	<a href="#">CDFDH-127</a> data access problem	
	<a href="#">CDFDH-122</a> Check status of CAF/SAM interface regarding recovery jobs	
	<a href="#">CDFDH-55</a> Re: copying files to Bologna	
	<a href="#">CDFDH-23</a> Stuck dCache requests	

Issues: <b>CDF new issues from past week</b> (Displaying 15 of 15)		
	<a href="#">CDFDH-156</a> IAF406	
	<a href="#">CDFDH-155</a> Files on SAM taking too long	
	<a href="#">CDFDH-154</a> CDF prd DB Largest Last_ET rising	
	<a href="#">CDFDH-153</a> CDF prd DB Largest Last_ET rising	
	<a href="#">CDFDH-152</a> upload of two dhgp6a files failed	
	<a href="#">CDFDH-151</a> fcdldata100	
	<a href="#">CDFDH-150</a> No authroization request	
	<a href="#">CDFDH-149</a> SAM Optimizer is down for integration environment	
	<a href="#">CDFDH-148</a> Added disk inactive from long time	
	<a href="#">CDFDH-147</a> sam get dataset offsite	
	<a href="#">CDFDH-146</a> Error Message	
	<a href="#">CDFDH-145</a> stkensrv1 problem ? *urgent*	
	<a href="#">CDFDH-144</a> gjt1bj	
	<a href="#">CDFDH-143</a> encp errors	
	<a href="#">CDFDH-142</a> dcache error for cajob 3531028?	

Issues: <b>CDFDH unresolved problems</b> (Displaying 20 of 20)		
	<a href="#">CDFDH-156</a> IAF406	
	<a href="#">CDFDH-155</a> Files on SAM taking too long	
	<a href="#">CDFDH-152</a> upload of two dhgp6a files failed	
	<a href="#">CDFDH-151</a> fcdldata100	
	<a href="#">CDFDH-150</a> No authroization request	
	<a href="#">CDFDH-148</a> Added disk inactive from long time	
	<a href="#">CDFDH-147</a> sam get dataset offsite	
	<a href="#">CDFDH-146</a> Error Message	
	<a href="#">CDFDH-144</a> gjt1bj	
	<a href="#">CDFDH-143</a> encp errors	
	<a href="#">CDFDH-142</a> dcache error for cajob 3531028?	
	<a href="#">CDFDH-139</a> Long running query from SAM on CDF Offline Production database	
	<a href="#">CDFDH-138</a> Problems with fcdldata147	
	<a href="#">CDFDH-134</a> sam dataset definition problem	
	<a href="#">CDFDH-128</a> cdf-caf and cdf-fncdsv0 stations can get stuck if restarted	
	<a href="#">CDFDH-121</a> Debugging SAM @ CNAF	
	<a href="#">CDFDH-112</a> re : fcdldata135 is offline	
	<a href="#">CDFDH-109</a> SAM problems @ CNAF	
	<a href="#">CDFDH-96</a> cdf-japan station is down	
	<a href="#">CDFDH-30</a> Inactive Dcache cells	

## MINOS:

### General

#### Enstore -

No files lost in repeated STKEN PNFS outages

Discussed tape media plans 26 June

Will move entirely to LTO-4 when the new STKEN movers are up in FCC.

Till then, we write raw data to 9940B, all else to LTO-3

#### DCache -

Jun 24 FNDCA public DCache upgraded to 1.8 - went well

SAM -

SAM-IT/3582 - resolved, with removal of --constrain-delivery and --route  
But very slow file delivery ( minute per file ) on first pass on a file

Recommendation of sam\_db\_srv\_pkg v8\_4\_5 -  
This fails ( as does v8\_4\_4 ) with :

Traceback (most recent call last):  
File "/home/sam/products/db\_server\_base\_cx/v1\_8/NULL/bin/DbListener.py", line 31, in ?  
import DbCORBAomni  
File "/home/sam/products/db\_server\_base\_cx/v1\_8/NULL/lib/DbCORBAomni.py", line 12, in ?  
from omniORB import CORBA  
ImportError: No module named omniORB  
Steve and Art will look at this.

A large number of LTO4 drives/movers are being installed for the public enstore system.

Oracle -

Oracle quarterly patches - done Jun 24 during DCache upgrade.

#### OPEN ISSUES

IT 1146: cannot test existence of sam tape location  
IT 2071: quadratic project startup time growth

PLAN -

#### DB:

Today installed OS patches on d0ora2. MINOS patches installed last week. CDF already done.  
Next batch of patches come in mid-July.

EricW: Can we have a version of SAM that can ride out a 2 hour downtime? Problem is that there is a station method that crashes if the DB server is unavailable. Adam will talk to Andrew.

Anil: Over weekend there was high usage of CDF production DB caused by one user. Problem was that an older version of the CDF software was used.

#### Enstore/dCache

We would like to give a big thanks to Dave Berg for all of his contributions to this meeting and his help with keeping enstore/dCache running!  
Good luck Dave!!